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1 [Language-specific make technology for the Java programming language](#)


Mikhail Dmitriev
November 2002 OOPSLA '02: Proceedings of the 17th ACM SIGPLAN conference on
Object-oriented programming, systems, languages, and applications
Publisher: ACM

Full text available: [pdf\(238.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Keeping the code of a Java application consistent (code is consistent if all of the project classes can be recompiled together without errors) prevents late linking errors, and thus may significantly improve development turnaround time. In this paper ...

Keywords: Java, dependency checking, development turnaround time, make

2 Compiler construction using attribute grammars

 Kai Koskimies, Kari-Jouko R  ih  , Matti Sarjakoski
June 1982 SIGPLAN '82: Proceedings of the 1982 SIGPLAN symposium on Compiler construction


Publisher: ACM

Full text available:  [pdf\(589.62 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

The adequacy of attribute grammars as a compiler writing tool is studied on the basis of the experiences on attribute grammars for Pascal and a subset of Euclid. A qualitative assessment of the grammars shows that the compiler oriented view in the design ...

3 Using UML class diagrams for a comparative analysis of relational, object-oriented, and object-relational database mappings

 Susan D. Urban, Suzanne W. Dietrich
January 2003 ACM SIGCSE Bulletin, Volume 35 Issue 1

Publisher: ACM


Full text available:  [pdf\(220.00 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper illustrates the manner in which UML can be used to study mappings to different types of database systems. After introducing UML through a comparison to the EER model, UML diagrams are used to teach different approaches for mapping conceptual ...

Keyw ords: database design, entity-relationship model, object-oriented data model, object-relational data model, relational model, schema mappings, unified modeling language

4 Relational programming with CrocoPat

 Dirk Beyer
May 2006 I CSE '06: Proceedings of the 28th international conference on Software engineering

Publisher: ACM

Full text available:  [pdf\(164.05 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many structural analyses of software systems are naturally formalized as relational queries, for example, the detection of design patterns, patterns of problematic design, code clones, dead code, and differences between the as-built and the as-designed ...

Keyw ords: BDD, graph models, pattern matching, predicate logic, relational algebra, software analysis, transitive closure


5 On understanding the statics and dynamics of object-oriented programs



Noa Ragonis, Mordechai Ben-Ari

February ACM SIGCSE Bulletin, Volume 37 Issue 1
2005

Publisher: ACM

Full text available:  [pdf\(151.72 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

This paper describes research into the influence of using static (class and object) visualization on understanding program flow in object-oriented programming. We found that the advantages of using the static visualization in the first stages of learning ...

Keyw ords: BlueJ, object-oriented programming, program flow, visualization


6 An object-oriented framework for interactive data graphics



Robert L. Young

December ACM SIGPLAN Notices, Volume 22 Issue 12
1987

Publisher: ACM

Full text available:  [pdf\(1.44 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Ida is an object-oriented framework for interactive data graphics. It can be used for independent data examination or integrated into application user interfaces. Ida's model of graphics is composed of five basic elements: Presentations, Assemblies, ...

7 Static conflict analysis for multi-threaded object-oriented programs



Christoph von Praun, Thomas R. Gross

May 2003 ACM SIGPLAN Notices, Volume 38 Issue 5

Publisher: ACM

Full text available:  [pdf\(674.11 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

A compiler for multi-threaded object-oriented programs needs information about the sharing of objects for a variety of reasons: to implement optimizations, to issue warnings, to add instrumentation to detect access violations that occur at runtime. An ...

Keyw ords: heap shape graph, object use graph, program analysis, race detection, representations for concurrent programs


8 A programming language with natural persistence



Luc Bläser

October 2006 OOPSLA '06: Companion to the 21st ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications

Publisher: ACM

Full text available:  [pdf\(135.35 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As data persistence is very poorly supported by current programming systems, we have initiated a research project to improve this situation. The result is the new programming language Persistent Active Oberon, which directly institutionalizes persistence ...

Keyw ords: language design and implementation, object persistence

9 An aspect-oriented ambient intelligence middleware platform



Lidia Fuentes, Daniel Jiménez

November 2005 MPAC '05: Proceedings of the 3rd international workshop on Middleware for pervasive and ad-hoc computing

Publisher: ACM

Full text available:  [pdf\(411.42 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Currently, the interest in Ambient Intelligence (or AmI) has increased exponentially due to the widespread use of portable devices. Users demand more and more functionality from these devices, especially in order to perform collaborative tasks and interchange ...

Keyw ords: ambient intelligence, aspects, components, middleware

10 Automated Inference of Pointcuts in Aspect-Oriented Refactoring

Prasanth Anbalagan, Tao Xie

May 2007 ICSE '07: Proceedings of the 29th International Conference on Software Engineering

Publisher: IEEE Computer Society

Full text available:  [pdf\(316.63 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Software refactoring is the process of reorganizing the internal structure of code while preserving the external behavior. Aspect-Oriented Programming (AOP) provides new modularization of software systems by encapsulating crosscutting concerns. Based ...

11 Book Review: Internet Programming with Python

Dwight Johnson

October 1997 Linux Journal, Volume 1997 Issue 42es

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(7.26 KB\)](#)


Additional Information: [full citation](#), [index terms](#)

12 A pluggable architectural model and a formally specified programming language independent API for an ontological knowledge base server

Alexander Paar, Jürgen Reuter, Jaron Schaeffer

November 2005 AOW '05: Proceedings of the 2005 Australasian Ontology Workshop - Volume 58, Volume 58

Publisher: Australian Computer Society, Inc.

Full text available:  [pdf\(441.53 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recently, ontology engineering has become ever more important when it comes to conceptualize knowledge. However, writing software applications that operate on ontological knowledge still suffers from a lack of connectivity provided by available ontology ...


Keywords: description logics, ontology management, web ontology language (OWL)

13 Generative Programming Approach for Building Pervasive Computing Applications

Devdatta Kulkarni, Anand Tripathi

May 2007 SEPCASE '07: Proceedings of the 1st International Workshop on Software Engineering for Pervasive Computing Applications, Systems, and Environments

Publisher: IEEE Computer Society

Full text available:  [pdf\(162.86 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we present a generative programming approach for building context-aware applications. In this approach, a context-aware application is programmed using high-level specification constructs provided in our programming framework. The runtime ...

14 Attribute grammars and the teaching of compiler design and implementation

David G. Wonnacott

January 2007 Journal of Computing Sciences in Colleges, Volume 22 Issue 3

Publisher: Consortium for Computing Sciences in Colleges

Full text available:  [pdf\(208.51 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Attribute grammars can help separate issues of language semantics from issues of compiler implementation. We have found that a judicious use of attribute grammars fits very well with our goals for our Compiler Design course. This paper describes the ...

15 Teaching programming collaboratively



Raymond Flood, Bob Lockhart

September 2005 ACM SIGCSE Bulletin, Volume 37 Issue 3

Publisher: ACM

Full text available:  [pdf\(45.03 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We describe a collaborative approach to teaching core programming concepts based on student debate and involving the Phoenix meta-language generator.

Keywords: classroom dialogue, collaborative learning, meta-languages, problem-based learning, teaching programming concepts

16 [Integrating object-oriented programming and protected objects in Ada 95](#)



A. J. Wellings, B. Johnson, B. Sanden, J. Kienzle, T. Wolf, S. Michell

May ACM Transactions on Programming Languages and Systems (TOPLAS),
2000 Volume 22 Issue 3

Publisher: ACM

Full text available: [pdf\(245.47 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#), [review](#)

Integrating concurrent and object-oriented programming has been an active research topic since the late 1980's. There is now a plethora of methods for achieving this integration. The majority of approaches have taken a sequential object-oriented language ...

Keywords: Ada 95, concurrency, concurrent object-oriented programming, inheritance anomaly

17 [Teaching object-oriented simulation with PsimJ simulation package](#)



José M. Garrido, Kyungsoo Im

April ACM-SE 42: Proceedings of the 42nd annual Southeast regional conference
2004

Publisher: ACM

Full text available: [pdf\(218.09 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

PsimJ is a Java-based discrete-event simulation package that supports the process interaction approach to simulation. This paper presents insights of how this simulation tool can help improve the teaching of object-oriented simulation. The simulation ...

Keywords: MODSIM III, PsimJ, object-oriented modeling, object-oriented simulation models, simulation with Java

18 [A visual object-oriented development environment \(VOODE\)](#)

Vladimir Shcherbina, Pinna Vortman, Gabi Zodik

November CASCON '95: Proceedings of the 1995 conference of the Centre for
1995 Advanced Studies on Collaborative research


Publisher: IBM Press

Full text available: [pdf\(533.21 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Numerous classes, complex inheritance and containment hierarchies, and diverse patterns, all contribute to difficulties in understanding, reusing, debugging and tuning large object-oriented systems. To help overcome these difficulties, we introduce a ...

19 [A brief history of the object-oriented approach](#)

 Luiz Fernando Capretz
March 2003 ACM SIGSOFT Software Engineering Notes, Volume 28 Issue 2


Publisher: ACM

Full text available:  [pdf\(244.28 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#)

Unlike other fads, the object-oriented paradigm is here to stay. The road towards an object-oriented approach is described and several object-oriented programming languages are reviewed. Since the object-oriented paradigm promised to revolutionize software ...

20 [A programming framework for quality-aware ubiquitous multimedia applications](#)

 Duangdao Wichadakul, Xiaohui Gu, Klara Nahrstedt
December 2002 MULTIMEDIA '02: Proceedings of the tenth ACM international conference on Multimedia

Publisher: ACM

Full text available:  [pdf\(1.60 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Ubiquitous computing promises a computing environment that seamlessly and pervasively delivers applications to the user, despite changes of resources, devices, and locations. However, few ubiquitous multimedia applications (UMAs) exist up-to-date. One ...

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